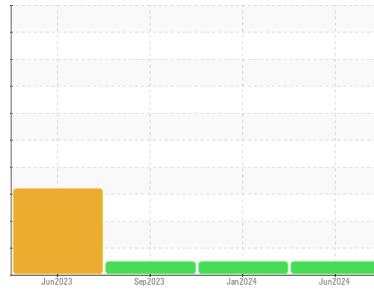


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2126985**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0128351</b>	PCA0115462	PCA0107403
Sample Date	Client Info			<b>09 Jun 2024</b>	02 Jan 2024	23 Sep 2023
Machine Age	mls Client Info			<b>97023</b>	56917	35098
Oil Age	mls Client Info			<b>40106</b>	56917	18147
Oil Changed	Client Info			<b>Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	<b>25</b>	27	17
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>38</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	1
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	12	12
Lead	ppm	ASTM D5185m	>40	<b>1</b>	5	1
Copper	ppm	ASTM D5185m	>330	<b>63</b>	117	399
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	3	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	<1

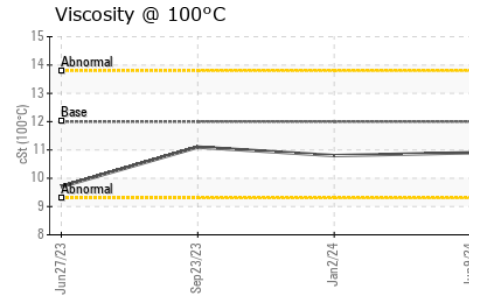
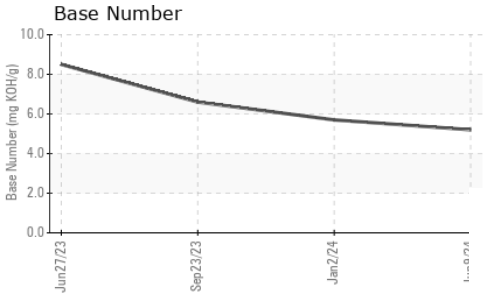
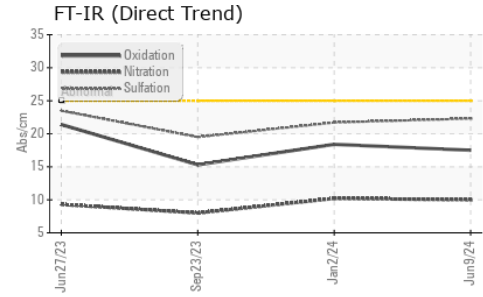
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<b>8</b>	3	8
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	12
Molybdenum	ppm	ASTM D5185m	50	<b>34</b>	57	71
Manganese	ppm	ASTM D5185m	0	<b>1</b>	2	1
Magnesium	ppm	ASTM D5185m	950	<b>726</b>	836	956
Calcium	ppm	ASTM D5185m	1050	<b>1468</b>	1069	1157
Phosphorus	ppm	ASTM D5185m	995	<b>966</b>	831	1043
Zinc	ppm	ASTM D5185m	1180	<b>1231</b>	1025	1248
Sulfur	ppm	ASTM D5185m	2600	<b>3599</b>	2479	2985

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>11</b>	10	13
Sodium	ppm	ASTM D5185m		<b>3</b>	4	<1
Potassium	ppm	ASTM D5185m	>20	<b>12</b>	31	34

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.4	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.0</b>	10.2	8.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	21.7	19.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.5</b>	18.4	15.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.2</b>	5.7	6.6

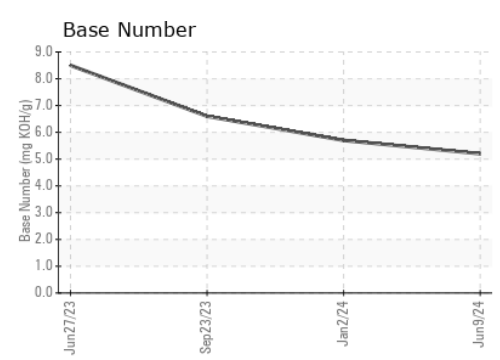
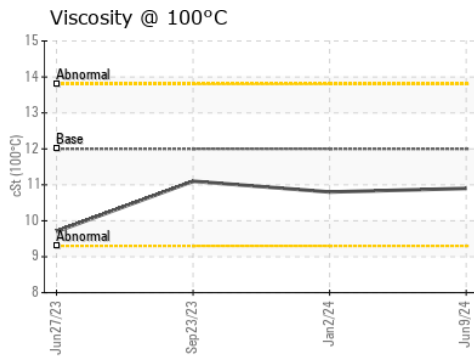
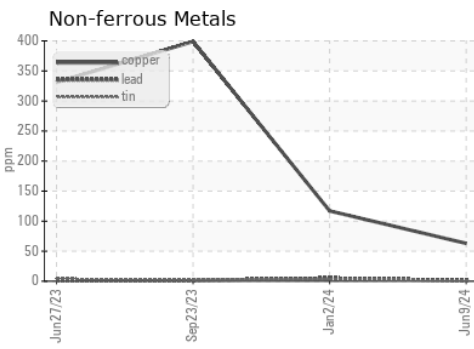
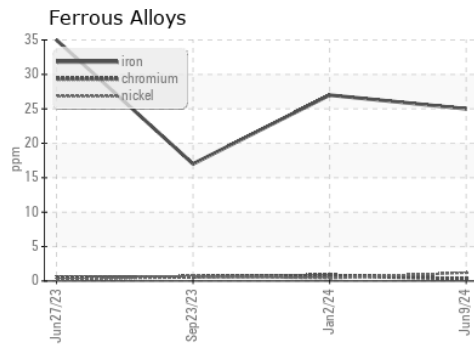
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.9	10.8

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0128351      **Received** : 25 Jun 2024  
**Lab Number** : 06219411      **Tested** : 25 Jun 2024  
**Unique Number** : 11097608      **Diagnosed** : 25 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - GEORGETOWN**  
 20621 SAVANAH RD  
 GEORGETOWN, DE  
 US 19947  
 Contact: ROBERT LOCKWOOD  
 Robert.Lockwood@Perdue.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)